

ABSTRACT OF THE DISCLOSURE

An optical encoder comprises a plurality of first photodiodes, a second photodiode and a circuit. The plurality of first photodiodes are arranged in a first direction, each of the first photodiodes has a light detecting part extending along a direction substantially perpendicular to the first direction. The second photodiode is arranged near tips of the first photodiodes, and has a light detecting part extending along the first direction. The circuit performs a calculation based on outputs of the first and second photodiodes.